

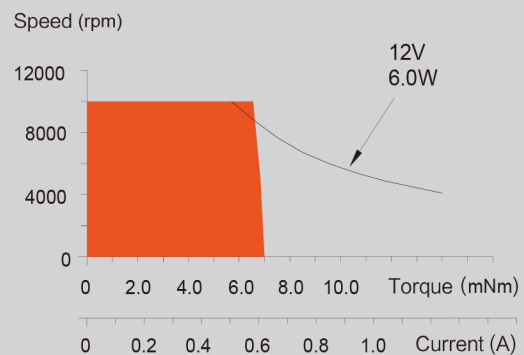
Motor Data

Motor model			SR223806B	SR223812B	SR223818B	SR223824B	SR223836B	SR223848B
1	Nominal voltage	V	6	12	18	24	36	48
2	No load speed	rpm	7000	11000	11000	11500	9650	9130
3	No load current	mA	36	26	16	20	12	10
4	Nominal speed	rpm	4650	7680	7300	8840	6500	5920
5	Nominal torque	mNm	4.05	6.7	7	6.9	7	6.9
6	Nominal current	A	0.5	0.65	0.45	0.35	0.2	0.14
7	Output power	W	2	5.39	5.36	6.39	4.76	4.28
8	Stall torque	mNm	11.9	21.7	20.4	28.6	21.9	20
9	Stall current	A	1.46	2.11	1.32	1.45	0.63	0.41
10	Max. efficiency	%	65	72	72	73	72	71
11	Terminal resistance	Ω	4.1	5.7	13.6	16.5	57.1	117
12	Torque constant	mNm / A	8.1	10.3	15.4	19.7	34.72	48.74
13	Speed constant	rpm / V	1179	925	618	486	275	196
14	Speed torque gradient	rpm / mNm	590	494	525	385	441	457
15	Terminal inductance	mH	0.11	0.14	0.3	0.9	1.25	2.68
16	Rotor inertia	gcm <sup>2</sup>	4.1	4.3	4.16	4.17	4.06	4

Specifications

- 1 ambient temperature  $T_a$  -20~+65°C
- 2 Max.winding temperature  $T_{coilmax}$  +125°C
- 3 Max.speed  $N_{max}$  12000rpm
- 4 axial play  $\Delta t$  0.05~0.15mm
- 5 number of pole pairs  $p$  1
- 6 number of commutator segments 5
- 7 weight of motor  $W_t$  60g
- 8 Max.axial load(dynamic) 3N
- 9 Max.force for press fits(static) 45N
- 10 Max.radial load,4mm from flange 12N

Operating Range



Terminal definitions

